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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-07-31-90** **Date: 24-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at 9th A Main, A Sector in Ward No.04,Yelahanka Division.
Agency	:	Sri.A.Rajendra Reddy, No.14, Mathrushree Nilaya, Vinayakanagara, Amruthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/15/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-06-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.93	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.2	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-07-31-90** **Date: 20-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at 9th A Main, A Sector in Ward No.04,Yelahanka Division.
Agency	:	Sri.A.Rajendra Reddy, No.14, Mathrushree Nilaya, Vinayakanagara, Amruthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/15/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	22-06-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-07-31-90** **Date: 24-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at 9th A Main, A Sector in Ward No.04,Yelahanka Division.
Agency	:	Sri.A.Rajendra Reddy, No.14, Mathrushree Nilaya, Vinayakanagara, Amruthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/15/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-06-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-06-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	247	247	1.6	98.4	90-100
3	20 mm	5417	5664	37.8	62.2	30-70
4	10 mm	4148	9812	65.4	34.6	10-35
5	4.75 mm	4849	14661	97.7	2.3	0-5
6	Pan.	339	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-07-31-90** **Date: 24-06-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.23	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-07-31-90** **Date: 24-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at 9th A Main, A Sector in Ward No.04,Yelahanka Division.
Agency	:	Sri.A.Rajendra Reddy, No.14, Mathrushree Nilaya, Vinayakanagara, Amruthahalli, Bangalore-560092.
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/15/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-06-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	227	227	4.5	95.5	90-100
3	10 mm	2475	2702	54.0	46.0	25-55
4	4.75 mm	2129	4831	96.6	3.4	0-10
5	Pan	169	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Date: 24-06-19

Lab ID	:	CP-2019-07-31-90
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at 9th A Main, A Sector in Ward No.04,Yelahanka Division.
Agency	:	Sri.A.Rajendra Reddy, No.14, Mathrushree Nilaya, Vinayakanagara, Amruthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/15/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	21-06-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	26	26	2.6	97.4	90-100	90-100	90-100	95-100
3	2.36 mm	57	83	8.3	91.7	60-95	75-100	85-100	95-100
4	1.18 mm	231	314	31.4	68.6	30-70	55-90	75-100	90-100
5	600 micron	200	514	51.4	48.6	15-34	35-59	60-79	80-100
6	300 micron	201	715	71.5	28.5	5-20	8-30	12-40	15-50
7	150 micron	190	905	90.5	9.5	0-10	0-10	0-10	0-15
8	Pan	95	1000	100.0	0.0	---	---	---	---

Result :The tested sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID : CP-2019-07-31-90 **Date: 26-06-19**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drain at 9th A Main, A Sector in Ward No.04,Yelahanka Division.

Agency : Sri.A.Rajendra Reddy, No.14, Mathrushree Nilaya, Vinayakanagara, Amruthahalli, Bangalore-560092.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/15/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-06-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 25-06-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.393	510	654	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.618	526	676	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	542	662	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-07-31-90** **Date: 10-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at 9th A Main, A Sector in Ward No.04,Yelahanka Division.
Agency	:	Sri.A.Rajendra Reddy, No.14, Mathrushree Nilaya, Vinayakanagara, Amruthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/15/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-07-19
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	05/07/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.53	100.46	1.126	4480	80.6	18.0	16.7	20.9
2	Cover Slab-2	75.48	100.51	1.112	4474	82.4	18.4	17.1	21.4
3	Cover Slab-3	75.52	100.52	1.116	4478	81.7	18.2	17.0	21.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/07/2019

Lab ID	:	CP-2019-07-31-90
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at 9th A Main, A Sector in Ward No.04,Yelahanka Division.
Agency	:	Sri.A.Rajendra Reddy, No.14, Mathrushree Nilaya, Vinayakanagara, Amruthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/15/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-06-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/06/2019	04/07/2019	149.55 X 151.89 X 149.85	22715	8.987	409.2	18.0	18.4
2	Drain Bottom Slab Concrete	M20	27/06/2019	04/07/2019	149.65 X 151.68 X 149.98	22699	8.419	421.5	18.6	
3	Drain Bottom Slab Concrete	M20	27/06/2019	04/07/2019	150.34 X 151.99 X 149.71	22851	8.877	425.6	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-07-31-90** **Date: 25/07/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at 9th A Main, A Sector in Ward No.04,Yelahanka Division.
Agency	:	Sri.A.Rajendra Reddy, No.14, Mathrushree Nilaya, Vinayakanagara, Amruthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/15/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-06-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/06/2019	25/07/2019	151.37 X 149.50 X 150.52	22630	8.805	534.3	23.6	23.0
2	Drain Bottom Slab Concrete	M20	27/06/2019	25/07/2019	151.23 X 149.77 X 149.26	22650	8.260	507.0	22.4	
3	Drain Bottom Slab Concrete	M20	27/06/2019	25/07/2019	151.64 X 149.80 X 151.12	22715	8.733	523.7	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-07-31-90 **Date: 04/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drain at 9th A Main, A Sector in Ward No.04,Yelahanka Division.

Agency : Sri.A.Rajendra Reddy, No.14, Mathrushree Nilaya, Vinayakanagara, Amruthahalli, Bangalore-560092.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/15/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-06-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/06/2019	04/07/2019	150.18 X 151.82 X 149.60	22800	8.987	416.2	18.3	18.2
2	Drain Bottom Slab Concrete	M20	27/06/2019	04/07/2019	150.80 X 150.43 X 150.71	22684	8.419	410.7	18.1	
3	Drain Bottom Slab Concrete	M20	27/06/2019	04/07/2019	151.24 X 150.52 X 151.97	22765	8.877	414.2	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/07/2019

Lab ID	:	CP-2019-07-31-90
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at 9th A Main, A Sector in Ward No.04,Yelahanka Division.
Agency	:	Sri.A.Rajendra Reddy, No.14, Mathrushree Nilaya, Vinayakanagara, Amruthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/15/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-06-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/06/2019	25/07/2019	150.37 X 149.47 X 150.34	22475	8.805	535.9	23.8	23.3
2	Drain Bottom Slab Concrete	M20	27/06/2019	25/07/2019	149.75 X 149.78 X 151.79	22428	8.260	500.5	22.3	
3	Drain Bottom Slab Concrete	M20	27/06/2019	25/07/2019	151.74 X 150.06 X 150.03	22770	8.733	542.6	23.8	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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CIVIL Pro Sig..... Date..... BANGALORE

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-07-31-90 **Date: 09/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drain at 9th A Main, A Sector in Ward No.04,Yelahanka Division.

Agency : Sri.A.Rajendra Reddy, No.14, Mathrushree Nilaya, Vinayakanagara, Amruthahalli, Bangalore-560092.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/15/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-07-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	02/07/2019	09/07/2019	151.92 X 149.27 X 150.35	22677	8.987	411.4	18.1	18.6
2	Drain Side Wall Concrete	M20	02/07/2019	09/07/2019	149.19 X 150.83 X 149.75	22501	8.419	425.6	18.9	
3	Drain Side Wall Concrete	M20	02/07/2019	09/07/2019	149.10 X 150.90 X 149.11	22499	8.877	421.6	18.7	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-07-31-90 **Date: 09/07/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at 9th A Main, A Sector in Ward No.04,Yelahanka Division.
Agency	:	Sri.A.Rajendra Reddy, No.14, Mathrushree Nilaya, Vinayakanagara, Amruthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/15/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	02/07/2019	09/07/2019	149.32 X 151.45 X 150.93	22614	8.987	412.1	18.2	18.5
2	Drain Side Wall Concrete	M20	02/07/2019	09/07/2019	151.18 X 151.59 X 151.18	22917	8.419	421.7	18.4	
3	Drain Side Wall Concrete	M20	02/07/2019	09/07/2019	150.67 X 151.74 X 150.68	22863	8.877	433.8	19.0	

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-07-31-90** **Date: 30/07/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at 9th A Main, A Sector in Ward No.04,Yelahanka Division.
Agency	:	Sri.A.Rajendra Reddy, No.14, Mathrushree Nilaya, Vinayakanagara, Amruthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/15/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	02/07/2019	30/07/2019	150.55 X 149.74 X 151.88	22542	8.805	523.0	23.2	23.2
2	Drain Side Wall Concrete	M20	02/07/2019	30/07/2019	149.56 X 149.17 X 151.55	22310	8.260	510.1	22.9	
3	Drain Side Wall Concrete	M20	02/07/2019	30/07/2019	149.93 X 150.09 X 151.96	22503	8.733	530.6	23.6	

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